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# NOTICE OF ALLOWANCE AND FEE(S) DUE

2292

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06/23/2009

BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747 EXAMINER

CHU, YONG LIANG

ART UNIT PAPER NUMBER

1626 DATE MAILED: 06/23/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,976	08/28/2006	Yasuyuki Suzuki	3939-0120PUS1	2609

TITLE OF INVENTION: COMPOSITION CONTAINING BENZAMIDINE DERIVATIVE AND METHOD FOR STABILIZING BENZAMIDINE DERIVATIVE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fee(:	s) Transmittal. Thi rs. Each additiona	s certif l paper	can only be used for icate cannot be used for such as an assignment ling or transmission.	or any otl	her accompanying
PO BOX 747	7590 06/23 ART KOLASCH CH, VA 22040-0747	& BIRCH		I her State	Cer eby certify that thes Postal Service we essed to the Mail	tificate is Fee(s vith suf Stop	of Mailing or Transis) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	deposite t class m above, o	ail in an envelope or being facsimile
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									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFI	RMATION NO.
10/590,976 TITLE OF INVENTIC DERIVATIVE	08/28/2006 ON: COMPOSITION CO	ONTAINING BENZAM	Yasuyuki Suzuki IDINE DERIVATIVI		ND METHOD F		939-0120PUS1 'ABILIZING BENZA	MIDINE	2609 E
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE	1	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810		09/23/2009
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CHU, YO	CHU, YONG LIANG 1626		514-232800						
PLEASE NOTE: Un	(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to								
(A) NAME OF ASSI	GNEE	categories (will not be pr	(B) RESIDENCE: (C	CITY	and STATE OR C		RY) on or other private gro	up entity	Government
4a. The following fee(s) are submitted:  Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  A check is enclosed.  Payment by credit card. Form PTO-2038 is attached.  The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
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an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but Virginia 22313-1450. DC 313-1450.	CFR 1.311. The information U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the NOT SEND FEES OR opersons are required to response.	1.14. This collection in depending upon the interest of the control of the complete of the control	s esti ndivi ffice S TC	mated to take 12 ridual case. Any cor, U.S. Patent and THIS ADDRESS	minutes mment Traden S. SENI	to complete, including s on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	g gathering gathering you resurt the second gather the second gath	ng, preparing, and equire to complete f Commerce, P.O.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/590,976	08/28/2006	Yasuyuki Suzuki	3939-0120PUS1	2609	
2292 759	90 06/23/2009	EXAMINER			
BIRCH STEWAR	RT KOLASCH & BI	CHU, YONG LIANG			
PO BOX 747	XXX 22040 0545	ART UNIT PAPER NUMBER  1626			
FALLS CHURCH,	VA 22040-0747				
		DATE MAILED: 06/23/2009			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 107 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 107 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
Notice of Allowability	10/590,976	SUZUKI ET AL.				
reduce of Anowability	Examiner	Art Unit				
	YONG CHU	1626				
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due course. <b>THIS</b>				
1. This communication is responsive to <u>03/26/2009</u> .						
2. The allowed claim(s) is/are <u>1-8</u> .						
<ol> <li>Acknowledgment is made of a claim for foreign priority unally and all bloomes could be some and bloomes and bloomes are all bloomes and bloomes are all bloomes and bloomes are all bloomes are a</li></ol>	e been received. e been received in Application No					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.					
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
<ul> <li>5.  CORRECTED DRAWINGS ( as "replacement sheets") muse (a)  including changes required by the Notice of Draftspers 1)  hereto or 2)  to Paper No./Mail Date</li> <li>(b)  including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposition of the d</li></ul>	son's Patent Drawing Review (PTO-9 s Amendment / Comment or in the O .84(c)) should be written on the drawing he header according to 37 CFR 1.121(c	office action of ags in the front (not the back) of d).				
attached Examiner's comment regarding REQUIREMENT						
Attachment(s)  1. Notice of References Cited (PTO-892)	5. ☐ Notice of Informal Pa	atent Application				
<ul><li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li></ul>						
Paper No./Mail Date ☐ Information Disclosure Statements (PTO/SB/08), 7. ☑ Examiner's Amendment/Comment						
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material		ent of Reasons for Allowance				
	9. ☑ Other <u>Drawings on 08/28/2006 are accepted</u> .					

#### **DETAILED ACTION**

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/26/2009 has been entered. Upon entering the submission, claims 1-8 are currently pending in the instant application, and claims 6-8 remain withdrawn as non-elected subject matter.

# Response to RCE Submission

#### Claim rejection under 35 U.S.C. § 103a

Applicants have amended claims 1-5 by further limiting "a composition" according to claim 1 to "a solid composition". In addition, Applicants argue that the previously cited the '730 patent by Suzuki and FDA Drug Application No. NDA #019437 merely disclose an oral or inject composition. Applicants' amendment and argument have been fully considered, and found persuasive. Furthermore, the instant Specification identifies the problem to be solved by the invention in paragraph [0004] and Fig. 1 of the Drawings. Due to the coexistence with a formulation additive under humidification/heating conditions in a solid state, a decomposition product is sometimes generated by a reaction as shown in FIG. 1:

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# Decomposed Product This

decomposition pattern is specifically related to the instantly claimed composition according to claim 1. In addition, as demonstrated in paragraphs [0044]-[0053], the claimed limitation of at least one type of electrolyte of halide salts according to claim 1 plays a critical role in reducing decomposition of a compound of the formula (I) according to claim 1. Such a criticality is not taught or suggested in either the `730 patent nor the FDA Drug Application No. NDA #019437, or the combining teaching of the references. Based on STN search of a composition comprising a compound related to the formula (I), there is no prior art teaching of using electrolyte halide salts for stabilizing the claimed solid composition. Therefore, the rejection is hereby withdrawn.

#### Claim rejection under Obviousness-type of Double Patenting

The ODP rejection is also withdrawn based on the same analysis under 103(a) rejection.

#### Status of the Claims

Applicants' amendment overcomes the claim rejections. Search and examination are expanded to the previously withdrawn non-elected subject matter under Groups (I) and (III). The product claims and method of use claims are rejoined.

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Because a claimed invention previously withdrawn from consideration under 37 CFR 1.142 has been rejoined, the restriction requirement among groups I-III as set forth in the Office action mailed on 02/12/2008 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

#### Examiner's amendment

An examiner's amendment to the record with the authorization by Applicants' representative John W. Bailey dated 06/16/2009 appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

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In claim 3, the second line from bottom, insert -- and -- after

In claim 6, line 8, <u>delete</u> "[" before "wherein R<sup>1</sup> and R<sup>2</sup> are the same as or different from each other..";

In claim 6, line 18, <u>delete</u> ".]" after "..R<sup>5</sup>, R<sup>6</sup> and R<sup>7</sup> represent hydrogen atoms or C1-4 alkyl groups".

In claim 7, the second line from bottom, insert -- and -- after

Application/Control Number: 10/590,976

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#### Reasons for Allowance

The present inventions are drawn to a solid composition comprising a

$$R^1$$
 $R^2$ 
 $Ar$ 
 $R^2$ 
 $O$ 
or a

benzamidine derivative of the formula (I)

pharmacologically acceptable salt thereof; and at least one type of electrolyte selected from the group consisting of halide salts of alkaline mental or alkaline earth metal and alkaline metal salts or alkaline earth metal salts of perchloric acid, and a method for stabilizing a benzamidine derivative of the formula (I).

The closest prior art of record is the `730 patent by Suzuki et al.

The `730 patent disclose a pharmaceutical composition comprising a compound of the formula (I). However, the `730 patent does not teach a solid composition further comprising an electrolyte of halide salts which is critical for reducing decomposition of the instantly claimed composition.

# **Conclusions**

• Claims 1-8 are allowed.

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# Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yong Chu, Ph.D, whose telephone number is 571-272-5759. The examiner can normally be reached on 7:00 am - 3:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. M<sup>⊆</sup>Kane can be reached on 571-272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Status Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Yong Chu/ Patent Examiner Art Unit 1626